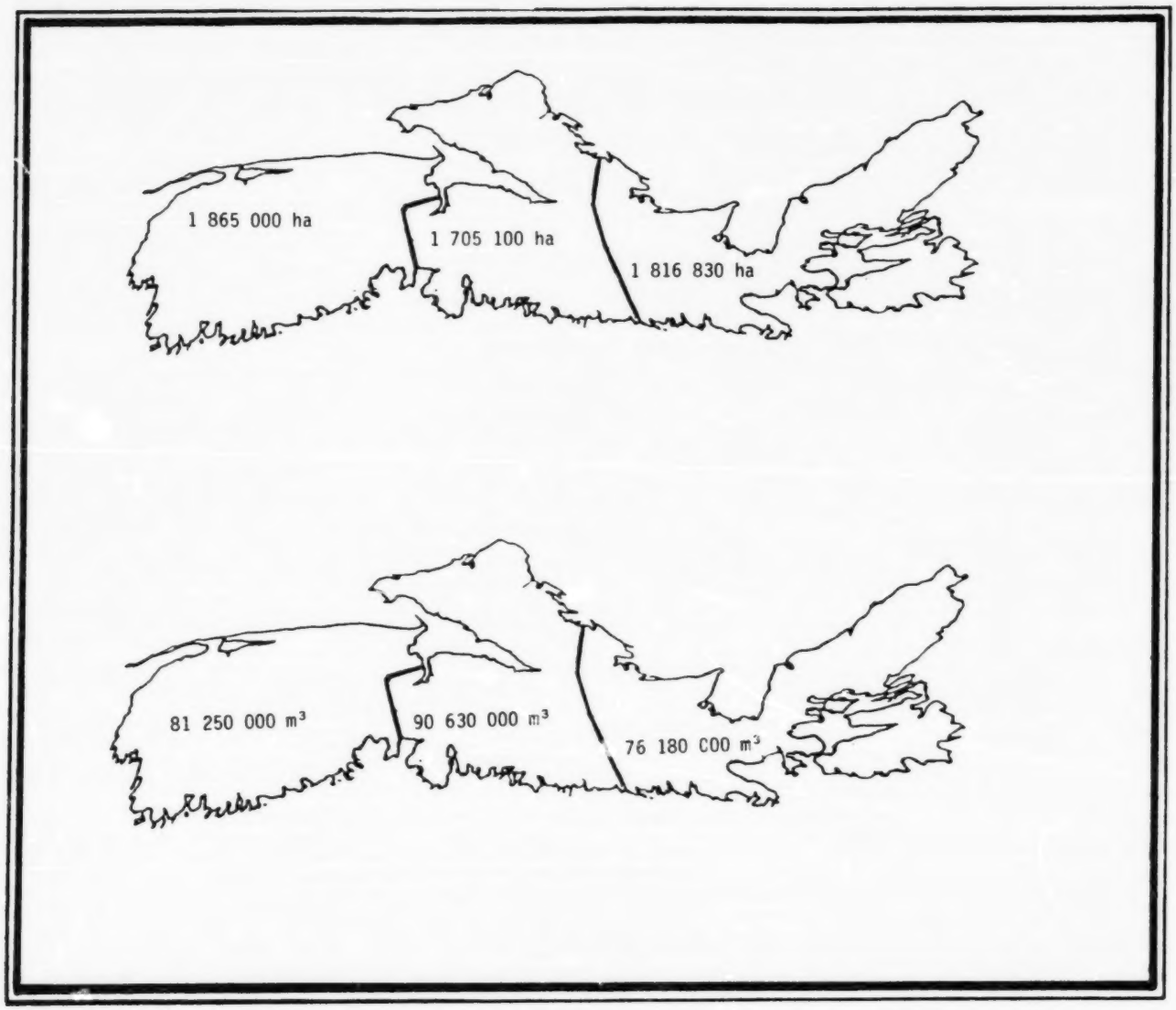
INFORMATION REPORT

NOVA SCOTIA FOREST INVENTORY

PROVINCIAL SUMMARY

1976 - 1985



Nova Scotia

Department of Lands and Forests

I N F O R M A T I O N R E P O R T

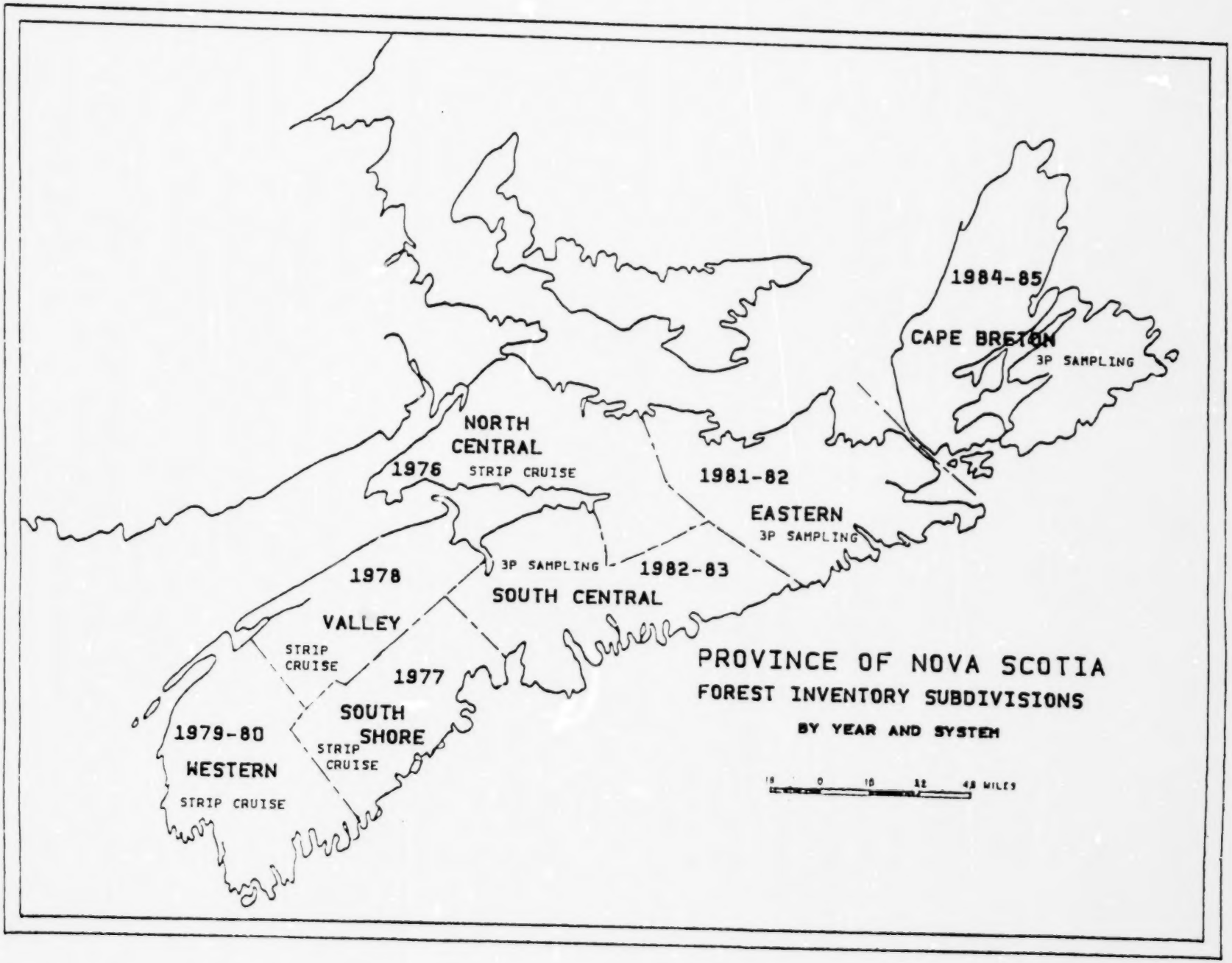
NOVA SCOTIA FOREST INVENTORY

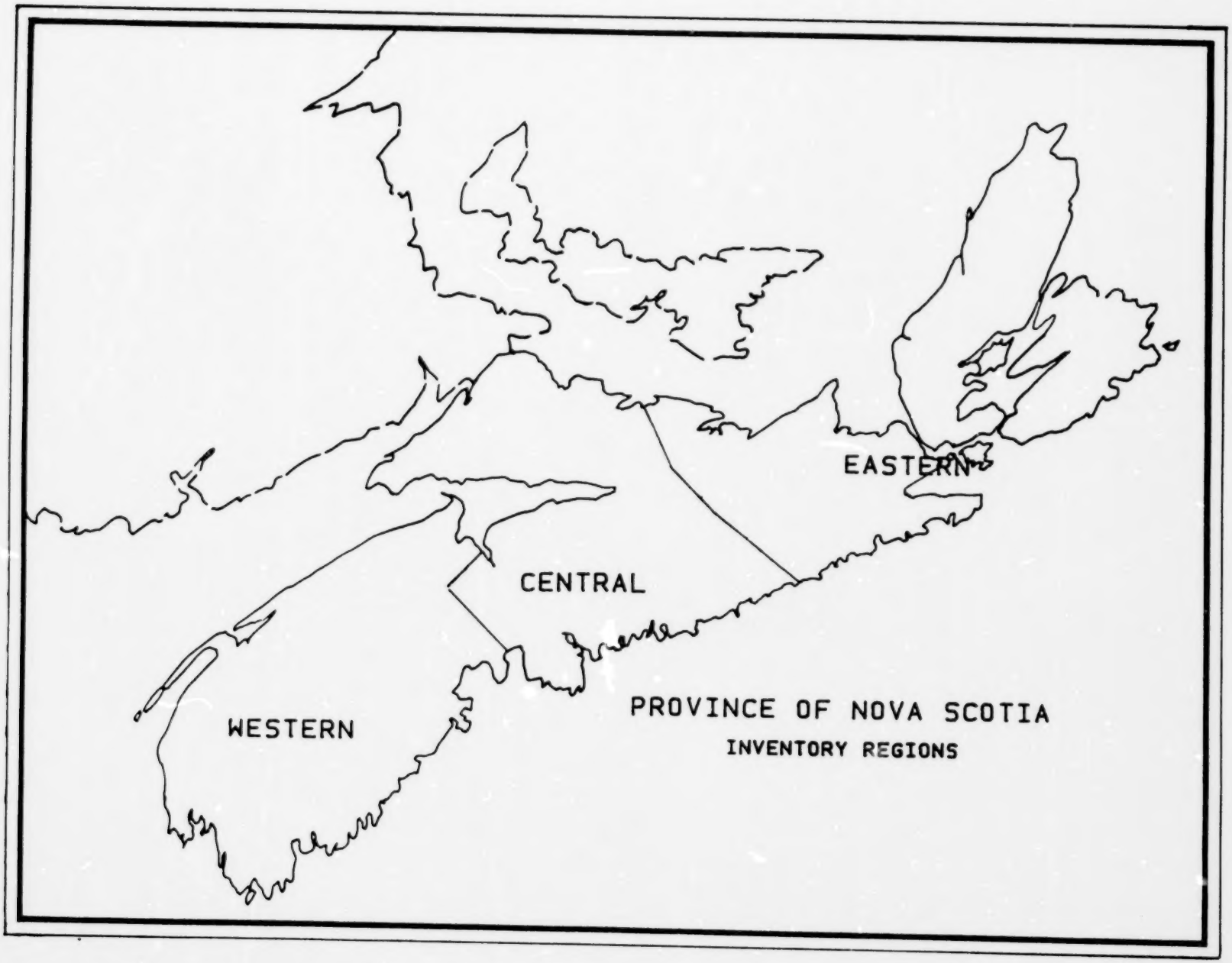
PROVINCIAL SUMMARY

1976 - 1985

Forest Resources Planning & Mensuration Division
P.O. Box 68, Truro
Nova Scotia B2N 5B8

September 1987


1984-85
CAPE BRETON
3P SAMPLING
NORTH
CENTRAL
1976 STRIP CRUISE
1981-82
EASTERN
3P SAMPLING
1978
3P SAMPLING
1982-83
SOUTH CENTRAL
VALLEY
STRIP
CRUISE
1977
SOUTH
SHORE
STRIP
CRUISE
1979-80
WESTERN
STRIP CRUISE
PROVINCE OF NOVA SCOTIA
FOREST INVENTORY SUBDIVISIONS
BY YEAR AND SYSTEM
0
MILES


EASTERN
CENTRAL
WESTERN
PROVINCE OF NOVA SCOTIA
INVENTORY REGIONS

LIST OF TABLES

		Page
1.	Nova Scotia 1976-85 Area data in hectares By Ownership & Land Class	2
2.	Nova Scotia 1976-85 Area data in hectares By Ownership & Age Class	2
3.	Nova Scotia 1976-85 Volume data in cubic metres By Ownership & Cover Type	3
4.	Nova Scotia 1976-85 Volume data in cubic metres By Ownership & Species	4
5.	Eastern Nova Scotia 1981-85 Area data in hectares By Ownership & Land Class	5
6.	Eastern Nova Scotia 1981-85 Area data in hectares By Ownership & Age Class	5
7.	Eastern Nova Scotia 1981-85 Volume data in cubic metres By Ownership & Cover Type	6
8.	Eastern Nova Scotia 1981-85 Volume data in cubic metres By Ownership & Species	7
9.	Central Nova Scotia 1976 & 1982-83 Area data in hectares By Ownership & Land Class	8
10.	Central Nova Scotia 1976 & 1982-83 Area data in hectares By Ownership & Age Class	8
11.	Central Nova Scotia 1976 & 1982-83 Volume data in cubic metres By Ownership & Cover Type	9
12.	Central Nova Scotia 1976 & 1982-83 Volume data in cubic metres By Ownership & Species	10
13.	Western Nova Scotia 1977-80 Area data in hectares By Ownership & Land Class	11
14.	Western Nova Scotia 1977-80 Area data in hectares By Ownership & Age Class	11
15.	Western Nova Scotia 1977-80 Volume data in cubic metres By Ownership & Cover Type	12
16.	Western Nova Scotia 1977-80 Volume data in cubic metres By Ownership & Species	13

Nova Scotia Forest Inventory
Provincial Summary
1976 -85

Introduction

This report is a compilation of the most recent inventories for Nova Scotia presented on a provincial as well as a regional basis.

Method

The data consists of a combination of strip cruise, and 3P Dendrometry Sampling. The following breaks down the dates and methods:

Cape Breton	- 3P Sampling (metric) 1984-85
Eastern	- 3P Sampling (metric) 1981-82
North Central	- Strip Cruise (metric) 1976
South Central	- 3P Sampling (metric) 1982-83
Valley	- Strip Cruise (metric) 1977
South Shore	- Strip Cruise (metric) 1978
Western	- Strip Cruise (metric) 1979-80

There have been four reports on a provincial basis since 1965. The first one covers the period 1965-71, the second 1970, 1972-80, the third 1975-82 and this one 1976-85.

Since the data for this report has come from two different inventories and six sets of data, and due to truncation of figures at various levels, totals from table to table will not agree exactly nor will columns and rows total exactly.

TABLE 1
Nova Scotia
1976-85 Area Data in hectares
By Ownership & Land Class

Land Class	Crown	Large Private	Small Private	Total*
Softwood	500 900	444 200	850 500	1 796 000
Mixedwood	317 700	260 700	564 200	1 142 800
Hardwood	338 300	186 700	526 000	1 051 600
Total Forest	1 157 300	891 900	1 941 000	3 990 500

Non Forest	233 760	89 790	608 610	932 590
Water & Flowage	318 270	54 120	90 700	463 340
Total Non Forest	552 220	143 910	699 390	1 395 930

T O T A L	1 709 540	1 036 360	2 640 570	5 386 930
T O T A L FEDERAL LAND				163 370
G R A N D T O T A L				5 550 300
T O T A L (acres)	(4,222,500)	(2,559,800)	(6,522,200)	(13,709,200)

ha x 2.47 = acres

TABLE 2
Nova Scotia
1976-85 Area Data in Hectares By
Ownership and Age Class

Age Class	Crown	Large Private	Small Private	Total*
Up to 20 years	158 600	85 300	179 600	423 700
21 - 40 years	168 200	119 100	351 800	639 300
41 - 60 years	426 900	278 400	745 400	1 450 900
61 - 80 years	291 000	248 200	462 500	1 001 800
81 - 100 years	56 700	64 900	76 200	198 100
101 + years	4 900	16 100	6 700	27 800
Uneven aged	50 100	78 700	118 000	247 000
T O T A L	1 157 300	891 900	1 941 000	3 990 500
T O T A L (acres)	(2,858,500)	(2,202,900)	(4,794,200)	(9,856,500)

ha x 2.47 = acres

*Excludes all Federal Land

TABLE 3
Nova Scotia
1976-85 Volume Data in Cubic Metres
By Ownership and Cover Type

Cover Type	Species	Thousands of Gross Merchantable cubic metres Crown	Large Private	Small Private	Total
Softwood	Softwood	19 880	28 700	52 990	101 570
	Hardwood	1 890	3 410	5 430	10 790
	Total	21 810	32 110	58 420	112 370
Mixedwood	Softwood	7 820	12 210	20 350	40 380
	Hardwood	5 080	7 440	12 970	25 500
	Total	12 900	19 650	33 330	65 890
Hardwood	Softwood	3 530	2 640	6 710	12 890
	Hardwood	17 920	9 880	29 130	56 940
	Total	21 450	12 520	35 840	69 830
T O T A L	Softwood	31 270	43 560	80 020	154 850
	Hardwood	24 900	20 730	47 570	93 220
	Total	56 170	64 300	127 600	248 070
T O T A L (Thousand Cords)	Softwood	(14,150)	(19,720)	(36,220)	(70,100)
	Hardwood	(11,270)	(9,380)	(21,530)	(42,200)
	Total	(25,430)	(29,100)	(57,760)	(112,300)

*Excludes all Federal Land

TABLE 4
Nova Scotia
1976-85 Volume Data in Cubic Metres
By Ownership and Species

Species	Thousands of Gross Merchantable cubic metres Crown	Large	Small	Total*
White Spruce	1 420	1 840	16 360	19 620
Spruce (Red & Black)	14 340	24 930	28 890	68 170
Fir	10 420	9 720	24 360	44 500
Hemlock	330	2 190	5 310	7 840
White Pine	3 630	4 190	3 300	11 140
Red Pine	320	230	320	870
Larch	660	380	1 300	2 360
Other Softwood	110	40	150	320
Total Softwood	31 270	43 560	80 020	154 850
(Thousand Cords)	(14,150)	(19,710)	(36,220)	(70,100)
Sugar Maple	4 780	3 090	8 580	16 460
Red Maple	10 430	10 310	16 770	37 540
Yellow Birch	4 760	3 050	6 490	14 320
White Birch	2 170	1 730	3 080	6 990
Oak	910	650	700	2 270
Aspen	1 000	900	5 710	7 620
Beech	650	660	4 760	6 080
Miscellaneous	140	290	1 440	1 890
Total Hardwood	24 900	20 730	47 570	93 210
(Thousand Cords)	(11,270)	(9,380)	(21,530)	(42,190)
TOTAL ALL SPECIES	56 170	64 300	127 600	248 070
(Thousand Cords)	(25,420)	(29,100)	(57,760)	(112,300)

m^3 x 0.4527 = cords

* Excludes all Federal land

TABLE 5
Eastern Region
1981-85 Area Data in Hectares By
Ownership and Land Class

Land Class	Crown	Large	Small	Total*
Softwood	201 400	54 900	284 500	541 000
Mixedwood	141 400	25 500	163 400	330 300
Hardwood	208 700	40 200	292 200	541 400
Total Forest	551 700	120 700	740 100	1 412 800
Non Forest	99 780	13 440	165 720	279 190
Water & Flowage	104 180	2 200	18 360	124 840
Total Non Forest	204 150	15 640	184 160	404 030
Total	755 850	136 340	924 260	1 816 830
(acres)	(1,866,900)	(336,700)	(2,282,900)	(4,487,500)

ha x 2.47 = acres

* Excludes all Federal Land

TABLE 6
Eastern Region
1981-85 Area Data in Hectares By
Ownership and Age Class

Age Class	Crown	Large	Small	Total*
Up to 20 years	130 200	22 900	109 900	263 000
21 - 40 years	82 400	20 500	138 500	241 500
41 - 60 years	149 700	39 700	261 800	451 200
61 - 80 years	149 900	28 600	192 500	371 000
81 - 100 years	31 500	4 800	26 600	63 000
101 + years	1 100	100	900	2 200
Uneven aged	6 200	3 500	9 600	19 400
Total	551 700	120 700	740 100	1 412 800
(acres)	(1,362,600)	(298,100)	(1,828,000)	(3,489,600)

ha x 2.47 = acres

* Excludes all Federal Land

TABLE 7
Eastern Region
1981-85 Volume Data in Cubic Metres
By Ownership and Cover Type

Thousands of Gross Merchantable cubic metres

Cover Type	Species	Crown	Large	Small	Total*
Softwood	Softwood	6 330	2 800	16 540	25 680
	Hardwood	420	160	940	1 570
	Total	6 790	2 970	17 490	27 250
Mixedwood	Softwood	1 450	790	5 570	7 810
	Hardwood	1 000	430	2 880	4 310
	Total	2 460	1 210	8 450	12 130
Hardwood	Softwood	2 090	370	3 700	6 170
	Hardwood	11 390	1 680	17 540	30 620
	Total	13 480	2 060	21 250	36 800
TOTAL	Softwood	9 880	3 970	25 810	39 670
	Hardwood	12 860	2 270	21 370	36 510
	Total	22 740	6 240	47 190	76 180
Total (Thousand Cords)	(Softwood)	(4,470)	(1,690)	(10,980)	(16,880)
	(Hardwood)	(5,820)	(960)	(9,090)	(15,540)
	(Total)	(10,290)	(2,650)	(20,080)	(32,420)

m^3 x 0.452 7 = cords

* Excludes all Federal Land

TABLE 8
Eastern Region
1981-85 Volume Data in Cubic Metres
By Ownership and Species

Species	Thousands of Gross Merchantable cubic metres Crown	Large	Small	Total*
White Spruce	720	350	8 200	9 290
Spruce	3 480	1 820	5 720	11 030
Fir	5 410	1 380	9 970	16 770
Hemlock	10	80	1 410	1 510
White Pine	180	200	290	680
Red Pine	--	--	110	110
Larch	50	110	90	250
Other Softwood	--	--	--	--
Total Softwood	9 880	3 970	25 810	39 610
(Thousand Cords)	(4,470)	(1,790)	(11,680)	(17,950)
Sugar Maple	3 920	680	6 310	10 920
Red Maple	3 890	970	5 740	10 620
Yellow Birch	3 880	370	3 680	7 940
White Birch	800	100	1 010	1 920
Oak	--	--	--	--
Aspen	20	40	1 170	1 240
Beech	320	70	3 140	3 540
Miscellaneous	--	10	300	310
Total Hardwood	12 860	2 270	21 370	36 510
(Thousand Cords)	(5,820)	(1,020)	(9,670)	(16,520)
TOTAL ALL SPECIES	22 740	6 240	47 190	76 180
(Thousand Cords)	(10,290)	(2,820)	(21,360)	(34,480)

m^3 x 0.452 7 = cords

* Excludes all Federal Land

TABLE 9
Central Region
1976 & 1982-83 Area Data in Hectares By
Ownership and Land Class

Land Class	Crown	Large	Small	Total*
Softwood	149 900	210 100	289 400	649 500
Mixedwood	63 600	123 000	178 600	365 400
Hardwood	44 800	79 400	113 200	237 800
Total Forest	258 400	412 800	581 500	1 252 900
Non Forest	57 100	43 500	235 700	336 400
Water & Flowage	76 700	15 100	23 900	115 800
Total Non Forest	133 800	58 600	259 600	452 200
TOTAL	392 300	471 500	841 200	1 705 100
(acres)	(968,900)	(1,164,600)	(2,077,700)	(4,211,500)

ha x 2.47 = acres

* Excludes all Federal Land

TABLE 10
Central Region
1976 & 1982-83 Area Data in Hectares By
Ownership and Age Class

Age Class	Crown	Large	Small	Total*
Up to 20 years	21 000	49 400	46 000	116 600
21 - 40 years	54 000	61 000	99 800	214 900
41 - 60 years	107 100	112 200	214 400	433 900
61 - 80 years	48 200	103 700	141 000	293 000
81 - 100 years	5 600	30 800	19 600	56 200
101 + years	900	6 600	2 700	10 400
Uneven aged	21 000	48 500	57 400	127 300
TOTAL	258 400	412 800	581 500	1 252 900
(acres)	(638,200)	(1,019,600)	(1,436,300)	(3,094,600)

ha x 2.47 = acres

* Excludes all Federal Land

TABLE 11
Central Region
1976 & 1982-83 Volume Data in Cubic Metres
By Ownership and Cover Type

Cover Type	Species	Thousands of Gross Merchantable cubic metres Crown	Large	Small	Total
Softwood	Softwood	7 240	13 880	21 240	42 370
	Hardwood	460	1 280	2 550	4 300
	Total	7 710	15 160	23 800	46 670
Mixedwood	Softwood	2 890	6 780	7 060	16 730
	Hardwood	1 700	3 750	4 760	10 220
	Total	4 600	10 530	11 820	26 960
Hardwood	Softwood	620	1 280	1 540	3 450
	Hardwood	2 830	4 680	6 020	13 530
	Total	3 460	5 970	7 560	16 990
TOTAL	Softwood	10 770	21 950	29 850	62 560
	Hardwood	5 000	9 720	13 330	28 060
	Total	15 770	31 670	43 190	90 630
TOTAL (thousand cords)	(Softwood)	(4,870)	(9,930)	(13,510)	(28,320)
	(Hardwood)	(2,260)	(4,400)	(6,030)	(12,700)
	(Total)	(7,130)	(14,330)	(19,550)	(41,020)

m^3 x 0.452 7 = cords

* Excludes all Federal Land

TABLE 12
Central Region
1976 & 1982-83 Volume Data in Cubic Metres
By Ownership and Species

Species	Thousands of Gross Merchantable cubic metres Crown	Large	Small	Total*
White Spruce	430	940	4 130	5 510
Spruce	5 910	13 370	12 440	31 720
Fir	3 460	5 920	10 450	19 830
Hemlock	60	850	1 550	2 460
White Pine	470	680	610	1 780
Red Pine	80	30	20	140
Large	210	100	480	790
Other Softwood	110	40	140	300
Total Softwood	10 770	21 950	29 850	62 560
(Thousand Cords)	(4,870)	(9,930)	(13,510)	(28,320)
Sugar Maple	720	1 830	1 550	4 100
Red Maple	2 330	4 460	5 700	12 510
Yellow Birch	720	1 940	1 840	4 510
White Birch	610	720	690	2 030
Oak	40	20	50	120
Aspen	220	360	2 500	3 090
Beech	260	250	470	1 000
Miscellaneous	60	90	500	670
Total Hardwood	5 000	9 720	13 330	28 060
(Thousand Cords)	(2,260)	(4,400)	(6,030)	(12,700)
TOTAL ALL SPECIES	15 770	31 670	43 190	90 630
(Thousand Cords)	(7,130)	(14,430)	(19,550)	(41,020)

m^3 x 0.452 7 = cords

* Excludes all Federal Land

TABLE 13
Western Region
1977-80 Area Data in Hectares By
Ownership and Land Class

Land Class	Crown	Large	Small	Total*
Softwood	149 580	179 170	276 600	605 300
Mixedwood	112 650	112 190	222 190	447 000
Hardwood	84 830	67 040	120 570	272 400
Total Forest	347 060	358 410	619 370	1 324 800
Non Forest	76 880	32 850	207 190	317 000
Water & Flowage	137 390	36 820	48 440	222 700
Total Non Forest	214 270	69 670	255 630	539 700
TOTAL	561 390	428 520	875 110	1 865 000
(acres)	(1,386,000)	(1,058,000)	(2,161,000)	(4,607,000)

ha x 2.47 = acres

* Excludes all Federal Land

TABLE 14
Western Region
1977-80 Area Data in Hectares By
Ownership and Age Class

Age Class	Crown	Large	Small	Total*
Up to 20 years	7 330	13 030	23 660	44 000
21 - 40 years	31 800	37 540	113 470	182 800
41 - 60 years	170 140	126 530	269 190	565 800
61 - 80 years	92 760	115 960	128 980	337 700
81 - 100 years	19 540	29 360	29 990	78 900
101 + years	2 790	9 300	3 080	15 100
Uneven aged	22 680	26 670	50 980	100 300
TOTAL	347 060	358 410	619 370	1 324 800
(acres)	(857,000)	(885,000)	(1,529,000)	(3,272,000)

ha x 2.47 = acres

* Excludes all Federal Land

TABLE 15
Western Region
1977-80 Volume Data in Cubic Metres by
Ownership and Cover Type

Cover Type	Species	Ownership thousands of gross merchantable cubic metres Crown	Large	Small	Total*
Softwood	Softwood	6 300	12 010	15 200	33 520
	Hardwood	1 010	1 970	1 930	4 910
	Total	7 310	13 980	17 130	38 430
Mixedwood	Softwood	3 470	4 640	7 720	15 830
	Hardwood	2 360	3 260	5 330	10 960
	Total	5 840	7 900	13 050	26 790
Hardwood	Softwood	800	979	1 460	3 250
	Hardwood	3 690	3 512	5 560	12 790
	Total	4 500	4 491	7 020	16 030
TOTAL	Softwood	10 610	17 640	24 350	52 610
	Hardwood	7 030	8 730	12 860	28 640
	Total	17 650	26 380	37 210	81 250
TOTAL (thousand cords)	(Softwood)	(4,800)	(7,980)	(11,020)	(23,810)
	(Hardwood)	(3,180)	(3,950)	(5,820)	(12,960)
	(Total)	(7,990)	(11,940)	(16,840)	(36,780)

m^3 x 0.452 7 = cords

* Excludes all Federal Land

TABLE 16
Western Region
1977-80 Volume Data in Cubic Metres
Ownership and Species

Species	Thousands of gross merchantable cubic metres Crown	Large	Small	Total*
White Spruce	250	540	4 020	4 810
Spruce	4 930	9 730	10 720	25 400
Fir	1 540	2 420	3 930	7 900
Hemlock	260	1 250	2 340	3 860
White Pine	2 970	3 300	2 390	8 680
Red Pine	230	200	170	610
Larch	390	170	730	1 300
Other Softwood	0	0	10	10
Total Softwood	10 610	17 640	24 350	52 610
(thousand cords)	(4,805)	(7,986)	(11,025)	(23,810)
Sugar Maple	130	570	710	1 430
Red Maple	4 200	4 870	5 320	14 400
Yellow Birch	160	730	960	1 860
White Birch	750	900	1 370	3 030
Oak	870	630	640	2 150
Aspen	760	490	2 030	3 290
Beech	60	330	1 140	1 540
Miscellaneous	80	180	630	910
Total Hardwood	7 030	8 730	12 860	28 640
(thousand cords)	(3,185)	(3,955)	(5,823)	(12,960)
TOTAL ALL SPECIES	17 650	26 380	37 210	81 250
(thousand cords)	(7,991)	(11,942)	(16,848)	(36,780)

m^3 x 0.452 7 = cords

* Excludes all Federal Land